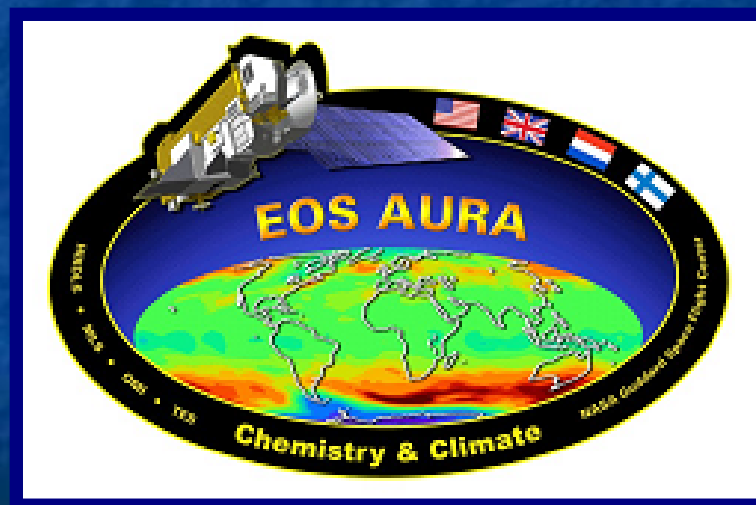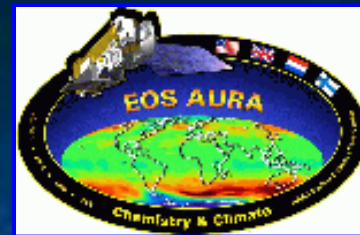# Aura DSWG Report

Cheryl Craig
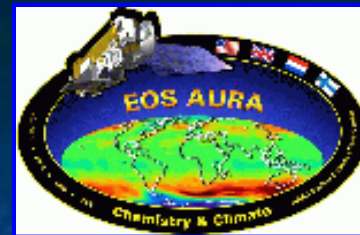
Instrument Team Reports:HIRDLS
Vince Dean

- Current end-to-end takes 9 wall clock hours. Computer capabilities enable about 12x. Able to reprocess 2 years of data in about 2 months.

- GES DISC evolution – appears to be going well. Have needed to make some minor changes to SIPS. DISC responsive to SIPS needs.

- SIPS system useful in tracking experimental processing (outside initial scope of production-only processing system)

- HIRDLS Data Description and Quality and Short Guides at DAAC:

    http://daac.gsfc.nasa.gov/Aura/documentation/index.shtml

- HIRDLS Scan Tables:

    ST 30 – January 21 … April 28, 2005

    ST 13 – April 28, 2005 … April 24, 2006

    ST 22 – April 24 … May 4, 2006

    ST 23 – May 4, 2006 …
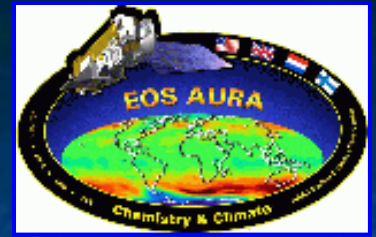
Instrument Team Reports:MLS
David Cuddy

- 94.6% of all possible measurements have resulted in science measurements
- Plan to start version 2 of software in November and will be version for 2-3 years without change
- Version 2 changes:
  - New species: CH_3CN, SO_2
  - Level 3 Zonal Mean and Grid products
- Weekly science team meetings to discuss data and identify any anomalies
- GES DISC evolution, Mini-Moss test: successful test and no issues
- Aids to users: website, QA doc, User Registration (to email users of issues), email help, IDL readers

Instrument Team Reports:OMI
Jacques Claas

- Reprocessing:
  - Start reprocessing of L0 through L1b at the end of January 2007.
  - After evaluation period, will be released to the public
  - Challenge as 4 distinct systems all need to be updated
  - Will run V2 and V3 concurrently until reprocessing catches up with current
- DAAC evolution concerns
  - Held splinter meeting, identified issues and action items
  - Will be receiving detailed test schedule from GES DISC

Instrument Team Reports:TES
Doug Shepard

- Current version 2 (also known as R9) has been running since February 2006.

- Plan on implementing Version 3 (R10) November 1
  - Includes improvements in Tropospheric Limb retrievals and CO_2 Spectroscopy

- ASDC (Langley) website provides good view into TES data holdings

- TES provides IDL data readers to users

Aura HDF-EOS Guidelines

- "Commonality where possible, diversity where necessary"
- V2.x is in final review with expected acceptance at the end of September
  - Grid and Zonal Mean Guidelines
  - Updates to all instrument teams fields

- Updated Guidelines will be available at:
  http://www.eos.ucar.edu/hirdls/HDFEOS_Aura_File_Format_Guidelines.pdf
  http://www.eos.ucar.edu/hirdls/HDFEOS_Aura_File_Format_Guidelines.doc

GES DISC S4PA Evolution Status
James Johnson

- Will run tests with MLS, followed by OMI and then HIRDLS
- Mini-MOSS test with GMAO data successful for all instrument teams
  - System is waiting for GMAO Geos-5 processing to begin
- ESDT descriptors will be going away and will be replaced by GCMD DIFs for collection level metadata
- Giovanni available: online visualization and exploration tool
- On the fly ftp subsetting available for both spatial and parameter

LaRC/ANGe Status
Michelle Ferebee

- ANGe: Consolidate LATIS (CERES) and ECS(MISR, MOPITT and TES)
  - Reduce operations cost by 25-35% in FY08
- V1 design is complete. Coding for V1 should be complete by 9/29
- Initial ANGe testing will be done in October and November
- Coordinate testing schedule in early 2007 with instrument teams
- Robust V2 system ready Summer 2007
- Turn off ECS system December 2007

ESDIS Commitment to support HDF and HDF-EOS
Dan Marinelli

- Reassured that ESDIS will continue to support HDF and HDF-EOS
- Workshop X in Landover November 28-30
- NPP/NPOESS using HDF5 as their base format

Evolution Testing and Documentation Status
Karen Michael

- The ECS system at the GES DAAC will be replaced by the S4PA system

- The ECS system at the ASDC DAAC will be replaced by the ANGe system

- Interface, performance and additional mini-MOSS tests will be run with every instrument team

- ICDs for Goddard being consolidated into one document with chapters for each instrument team.

- WIST (new search and order tool) will replace EDG. Plan on being operational April 2007

Toolkit and HDF-EOS Status and Future Plans
Karen Michael for Abe Taaheri

- Current staff of two full-time developers
- New version of HDF-EOS plugin for HDFView
- Toolkit 5.2.15 to be released December 2006

General Discussion

- GMAO Geos-5 is major concern for every instrument team.
  - Several teams have very tight schedules where there is no room for problems
  - Problems will arise if:
    - Further delivery slips by GMAO
    - Encounter unexpected problems in either GMAO data or with their processing.
- Aura Data Standards appear to be working. Few complaints from Users of data:
  - IDL readers provided by 3 instrument teams (readers can be used to read any team's data
  - Some OMI parameters are also available in TOMS-like format